

Solar Power Generation National Project



Overview

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity changes. Electricity generation by the U. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. The focus is on ground-mounted systems larger than 5M AC, including photovoltaic (PV) standalone and PV+battery hybrid projects (smaller projects are covered in Berkeley Lab's. Concentrating solar power (CSP) projects in United States are listed below alphabetical by project name. You can browse a project profile by clicking on the project name.

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Major Solar Projects List

The Major Solar Projects List is a database of all ground-mounted solar projects, 1 MW and above, that are either operating, under construction or under development.

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The U.S. Large-Scale Solar Photovoltaic Database

It includes corresponding PV facility information, including panel type, site type, and initial year of operation.

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Solar power generation drives electricity generation growth over the

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Almost 70 ...

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U.S. Utility-Scale Solar, 2025 Data

Update

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.

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Renewable Energy Project Development Toolbox , US EPA

In January 2015, the college completed the installation of five solar photovoltaic arrays, which now produce 342,200 kWh per year. The presentation will include detailed information on ...

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U.S. developers report half of new electric generating capacity will

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US , Concentrating Solar Power Projects , NLR

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Solar power in the United States

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt ...

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Solar Energy Program Overview

Record sales, increased consumer and utility demand, enhanced federal and state incentives, new product development as support by the President's Solar America Initiative (SAI1), massive ...

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